



FUEL AND CHEMICAL STORAGE SPECIALISTS

For more than 17 years, Core Engineered Solutions, Inc. has provided environmentally compliant fuel storage and chemical storage systems that meet the highest safety standards. Our system expertise includes vehicle dispensing systems, emergency power systems, aviation fueling, marina fueling, waste oil, alternative fueling and chemical storage systems. Our capabilities range from providing pre-engineered systems for standard applications to complex large-scale systems. Core works with end users, engineers and project teams to provide systems design expertise and comprehensive support. Our experts are up to date on the latest environmental regulations and fire codes so you don't have to be.

Washington, D.C. | Albany, NY | Fort Worth, TX

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CORPORATE PROFILE



Founded in 1990, Core Engineered Solutions was initially formed to manufacture and market the proprietary ConVault concrete encased Aboveground Storage Tank (AST), a new technology developed for the storage of petroleum and other fluids. This pioneering system was well received by the fire safety and environmental regulatory communities and provided a less costly and superior alternative to upgrading or replacing existing underground storage tanks. Core has grown to be the largest licensee of this product, having sold over 5,000 fuel storage systems to customers ranging from independent owner/operators to Fortune 500 companies and all levels of government. Customers include Amoco, General Motors, Ford, UPS, AT&T, Motorola, IBM, Dupont, USX, MCI Worldcom, 3M, AOL, Pfizer, Marriott and Georgia Pacific.

Products and service offerings have been developed to provide a comprehensive range of pre-engineered integrated system solutions for customers. Systems are built to the highest standards of quality and safety. Core is highly specialized technically, allowing for exceptional focus on system performance.

In 1993, Core became the first AST manufacturer to negotiate a contract with the General Services Administration to supply tanks, accessories and ancillary services to all federal government users. Core has consistently maintained the leading market share while competing with over a dozen other suppliers. Core has received the Riggs Bank *Fast Track Award* for growth and earned *Inc. 500* honors as one of the fastest growing private companies in the country.



CORPORATE CAPABILITIES

Fuel Storage Systems Expertise:

- Vehicle Dispensing
- Emergency Power
- Mission Critical Systems
- Boiler Fueling
- Marina Fueling
- Aviation Fueling
- Fuel Management
- Waste Oil
- Alternative Fuels

Chemical Storage Systems Expertise:

- Non-Combustible Chemical Storage Buildings
- Fire-Rated Chemical Storage Buildings
- Folding / Portable Storage Buildings
- Self Contained Emergency Showers



Core provides environmental compliance systems that safeguard customer facilities while improving the efficiency of their operations. Our single-source capabilities range from providing pre-engineered systems for standard applications to integrated EF&I (engineer, furnish and install) capabilities. Core has furnished integrated systems for thousands of customer facilities worldwide. The wise choices we make when designing your system are the culmination of years of experience successfully implementing similar solutions.

Core's mission is clear: We are committed to assisting you to maintain a safe, compliant and efficient facility by offering specialized solutions to meet your most complex fuel storage challenges.





THE CORE ADVANTAGE

The Benefits of using Core:

Compliant and field proven systems :

Thousands of installations nationwide

Integrated design and procurement:

Saves time & money

Experience and reliability:

We have seen it before

First quality parts:

Safe, reliable and efficient

Fast-track solutions:

On time every time

Single source responsibility:

One point of contact ensures quality and reliability

Pre-engineered standard systems for multiple installations:

Ensures system compatibility

There is no more convenient way to provide system design, production, integration and delivery.

We've seen it before - Core provides economical, ready-to-install, pre-engineered systems for standard fueling applications. Standard systems are available for emergency power fuel supply, boiler backup fuel, vehicle and equipment fueling, hazardous material storage and oil/water separation. Pre-engineered systems are field-proven, standard for multiple sites, significantly more economical to manufacture and have short lead times. Core systems use only the highest quality parts to ensure safety and reliability. Fuel Storage Systems typically include safeguards for secondary containment, fire resistance, ballistic and vehicle impact, gauging/monitoring and spill/overflow protection.





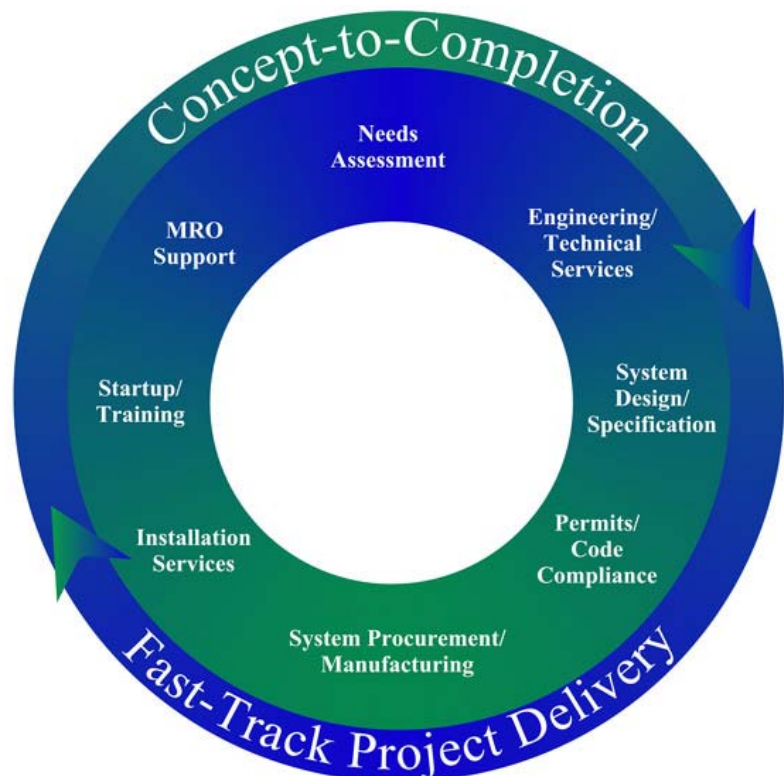
SUPPORT SERVICES

Core's Support Services Include:

- Needs Assessment
- Engineering
- System Design/Specification
- Permits/Code Compliance
- System Procurement/Manufacturing
- Installation Technical Services
- Startup/Training
- MRO Support

Core Is Not Your Ordinary Contract Vendor - Comprehensive Support Services

Core Engineered Solutions is a single-source company providing users and their prime contractors comprehensive support to assist in system design, procurement, factory installation of equipment, packaging, shipping and technical oversight for installation. We work with facility managers, engineers and contracting officers up front to help determine user facility requirements and the most efficient system design. Single-source responsibility ensures system compatibility, timely production, delivery, superior quality and operating performance.





PROJECT METHODS, QUALITY, SAFETY & CONTROLS

Project Methods and Management

Core furnishes and installs specialized systems as part of a project team on major facility improvements. Core works with the lead engineering organization and facility engineers to determine system requirements. We then work to define interfaces with other facility systems work performed by others. Core also works in traditional design-bid-construct projects, within our specialized areas of expertise, as a general contractor.

Project Safety

Our number 1 priority in project management is the safe execution of our work. Safety occurs by deliberate planning and control. Core has an excellent project safety program and experience record. We incorporate the specific safety requirements of the facilities where we operate and our system design's meet and exceed all OSHA and industry safety standards.

Project Quality

Core designs and builds systems to the highest standards of quality. We are highly specialized technically, allowing an exceptional focus on the way our systems perform. Construction specifications include testing and certification of work to industry and regulatory standards.

Insurance and Bonding

Core maintains insurance for general liability, pollution liability, and professional liability. Insurance coverage and limits are modified as required to meet the needs of specific clients.



REPRESENTATIVE PROJECTS

Corporate & Industrial Customers:

- 3M
- A T & T
- Alcoa
- Allegheny Ludlum Steel
- Allied Signal
- Allstate Insurance
- Andrath Speed Lab
- Anheuser-Busch
- AOL
- Avis
- Bethlehem Steel
- Browning Ferris Industries
- Caterpillar
- Chevy Chase Bank
- Cummins Engine
- Du Pont
- Ford Motor
- General Mills
- General Motors
- Georgia Pacific
- Hertz
- Hewlett Packard
- IBM
- Ingersoll-Rand
- James River
- JLG Industries

Vehicle Dispensing

Client: Avis
Location: Indiana/Minnesota/Texas
Project: Integrated Fleet Fueling System

Avis Car Rental is one of the world's leading providers of automotive transportation with a fleet of over 1 million vehicles. To supply these vehicles Avis required expanded fueling capabilities at locations in Indiana, Minnesota, and Texas. Avis was also concerned with reducing liability factors with the new fueling systems.

Core provided Avis with integrated systems on a fast track basis, which included dispensing, storage and monitoring equipment. The pre-engineered systems included safe filling equipment, submersible pumps, and electronic dispensers-furnished complete to the site to minimize installation costs. The systems afforded Avis standard equipment design throughout the country and Core was able to meet local codes at each site. Our fire rated above ground Convault tank exceeded the requirements of all local fire authorities.

The turnkey solutions gave Avis an efficient and cost effective answer to their fueling requirements and put Avis in compliance with both state and federal regulations. In the process, Avis was able to reduce its exposure to environmental liabilities.

Client: United States Border Patrol
Location: Sites Nationwide
Project: Vehicle Fueling Systems



Core Engineered Solutions furnished the Border Patrol with turnkey fueling systems at multiple sites throughout the country. This included design, production, installation, start-up and training. Electronic fuel management systems were installed at all sites for security and accountability. Systems were linked to a site PC and have capabilities for remote monitoring. Core's pre-engineered fueling systems provided the Border Patrol with standardized equipment throughout the country.



REPRESENTATIVE PROJECTS

Corporate & Industrial Customers: Continued:

Laclede Steel
Lucent Technologies
Kraft Foods
Macy's
Marriott
MCI
Mercedes Benz
Merck
Merrill Lynch
Mobile
Motorola
Pfizer, Inc.
Phillip Morris Co.
Prudential Insurance
Six Flags
State Farm Insurance
Sunbelt Rentals
Thrifty
Toys R Us
UPS
US Steel
USX
Waste Management
Westinghouse Corp.



Client: City of Oldsmar
Location: Oldsmar, FL
Project: Triple Compartment Fuel System

Originally purchased by Ransom Eli Old, the founder of Oldsmobile, the City of Oldsmar sits on the edge of Pinellas County at the Northern end of Tampa Bay.

As a result of recent growth the city needed to upgrade its fleet fueling system. Oldsmar required a new fueling system that would accommodate a variety of vehicles while still maintaining a small footprint.

Core Engineered Solutions provided Oldsmar with a unique triple compartment ConVault Aboveground Fueling System. The main tank was split three ways into 1000, 2000 and 3000 gallon compartments designed to store unleaded, premium and diesel respectively. The system featured 3 separate ASTRA dispensing systems as well as a TopKat fuel management system to help track vehicle history and monitor fuel consumption. The close proximity of the tanks to the water was a concern for the city of Oldsmar. An environment rich in salt water will cause steel tanks to rust and corrode prematurely. ConVault tanks were chosen in part because they are covered with a low maintenance concrete exterior that will not rust or corrode.

The city of Oldsmar was able to reference Core's GSA contract (GS07F-9110G) allowing them to streamline the procurement process and receive GSA pricing.



REPRESENTATIVE PROJECTS

Engineering & Consulting Firms:

Applied Technology
Consolidated Engineering Services
CSC
Dames & Moore
Dewberry & Davis
EC Environmental Chemical Corp.
EMTA Company
Environmental Science & Engineering, Inc.
Fidelity Engineering Corp.
Flour Daniel
Hanover Engineering
Hayes Seay Mattern & Mattern
I.C.F./Keiser
Iceland Prime Contractors
IT Corporation
Jacobs Environmental, Inc.
Killam Associates
Kling-Lindquist Partnership, Inc.
Laidlaw
Malcom Pirnie, Inc.
Marcor Environmental, Inc.
Raytheon
Richard A. Alaimo Assoc.
Roy F. Weston
S.A.I.C.
Sverdrup Corporation
Tyree Environmental Services
Universal Corp.
VERSAR



Client: USMC
Location: Camp Fuji, Japan
Project: Vehicle Dispensing Systems

Camp Fuji, located at the base of Mount Fuji, Japan, was originally used as a military training area for a Samurai army over 800 years ago. Now as part of the Marine Corps Base Camp Butler complex,

Camp Fuji's mission is to support military training by US Forces. The USMC required secure fueling systems at the base to refuel a multitude of fleet vehicles.

The project included three separate refueling stations with a total capacity of 24,000 gallons. Each station included a split 4000 gallon gas/diesel fueling system. Dual wall UL 2085 rated ConVault storage tanks were used to ensure the safest system possible. ConVault tanks are surrounded by six inches of reinforced concrete, protecting both the primary and secondary containment. Each tank included: two twin hose high speed fuel dispensers, leak detection, remote fill system, hold down restraints and fuel management systems. Custom canopies were installed over each tank. The systems have given the Marine Corps added safety and environmental security. Camp Fuji has become a flagship fueling facility for the US Navy within the Pacific Rim.



Chemical Storage

Client: Campbells
Project: Chemical Storage Building

A major distribution company in NC was not in compliance with their hazardous waste storage.

They required a hazardous waste storage building and matching containment pans but the catch was they needed to purchase and have it delivered in less than 4 days for budget purposes. With time running short Campbells distribution contacted Core who was able to provide a PT 12-20 from our inventory of in-stock buildings. Core was able to meet companies budget and deadline on a fast track basis as well as securing and coordinating shipment / delivery of the building. Core carries an inventory of Chemical Storage Buildings, some of which available for immediate delivery.



REPRESENTATIVE PROJECTS

Telecommunications & Utilities:

AllTel
AOL
Army, Navy, Air Force
AT&T / Cingular
Bell Atlantic / Verizon
Cable & Wireless
Capital One
CIA
Contel of Virginia
Credit Suisse
Exodus Communications
GTE
J.P. Morgan Chase
MCI / Verizon
NASA
PEPCO
Qwest Communications
Savvis
Sprint
Tenet Health Systems
Wachovia
West Penn Power
Williams Communications



Emergency Power

Client: MCI Worldcom
Location: Nationwide
Project: Emergency Power Fuel Systems

Core Engineered Solutions provided fueling systems for emergency power at 11 locations throughout the U.S. Our integrated systems solution included design, production, installation, start-up, training and obtaining all permits. Installations at each site included: fire rated aboveground fuel tanks, duplex pump sets/controls, tank manifold controls, tank level controls, filtration pump sets/controls, tank filling equipment, tank monitoring equipment and an integrated control panel. Our fast-track process and national capabilities resulted in simultaneous start-ups at multiple sites.



Client: Major East Coast Bank
Location: East Coast U.S.
Project: Mission Critical Fueling

For major Data Centers a loss of power supply means server downtime and server downtime means immediate loss of revenue as well as other long term affects such as dissatisfied customers and a tarnished reputation. So when a major Bank required a high-tech fueling system at two new Tier 4 Data Centers on the East Coast, they called on Core.

Core's solution included a unique self commissioning fueling system which featured two 15,000 gallon double walled steel Underground Storage Tanks. The UST's fed four 400 gallon double walled Day Tanks which in turn fed four 2,000KW diesel generators. The Day Tanks and generators were located in a Fire-Rated room within the Data Center. Each Day Tank was equipped with an individual control panel to direct fuel from the main storage tanks to the generators. The unique design of the control panels creates a unique system which can recommissioned at any time without shutting down the entire system.



REPRESENTATIVE PROJECTS

Government Users:

Department of Defense

- US Air Force
- US Army
- US Navy
- US Marine Corps
- US National Guard

US Army Corps of Engineers

Department of Transportation

- FAA
- US Coast Guard

Department of Commerce

- NOAA
- National Weather Service

Department of Agriculture

Department of Justice

- Bureau of Prisons
- Federal Correctional Institute
- Immigration & Naturalization

Department of Energy



Aviation Fueling

Client: USCG

Location: San Diego, CA

Project: Aviation Fueling System

Core Engineered Solutions, Inc. was selected to provide a design-build Aviation refueling system for the USCG capable of fueling and de-fueling Jayhawk helicopters at 75 GPM and 47 GPM, respectively. The installation included three 12,000 gallon fuel storage tanks with multiple pumps feeding each tank. Each redundant system featured tanks, piping, control systems, tank monitor, filtration and spill containment. In addition, the scope of work required the Core to relocate an existing 400 Hz power system used to power the Helicopters. Core's scope of services included; design assistance, manufacturing, procurement, installation, permits, inspection and training for the entire system.



Client: Bombardier

Location: West Coast

Project: Aviation Fueling System

Recently, a major international Aircraft Manufacturer required two large refueling systems at their new regional maintenance facilities. Core provided safe, reliable and innovative fueling systems that were compliant with ATA 103. Systems were designed to unload and filter fuel prior to service. The unloaded fuel from each plane was designed to be filtered, kept in a separate storage area, then re-filtered and loaded back onto the plane after it had been serviced. Core's solution included an all-in-one aviation fueling module that could unload and bottom load refueling at 70 gpm, refuel aircraft at 70 gpm, de-fuel at 50 gpm and recirculate all filtered fuel at 70gpm. Each system featured six (12 total) UL 142 double wall, lined, fuel storage tanks and a digital tank monitoring, gauging and leak detection system. Core also provided piping, tank pads and bollards at each site. Additional turnkey services included: offloading, installation, electrical work, startup and training. Core's unique ability to provide a full scope of services allowed the customer to use a single-source for all work associated with the system.



REPRESENTATIVE PROJECTS

Government Users Continued:

Department of the Interior

- National Park Service
- US Fish & Wildlife Service
- US Geological Survey
- Bureau of Indian Affairs
- Bureau of Land Management
- Bureau of Reclamation

FEMA

General Services Administration

US Foreign Service

US Forest Service

US Property and Fiscal Office

United States Postal Service

Department of Veterans Affairs

- VA Medical Center
- VA National Cemetery

Central Intelligence Agency

NASA

Department of State

Intl. Boundary & Water Comm.

White House



Alternative Fueling

Client: Great Smokey Mountains

Location: Waynesville, NC

Project: Alternative Fueling System

In an initiative to improve air quality within Great Smokey Mountain National Park and surrounding areas the Park recently employed Core Engineered Solutions to supply a new B-50 Biodiesel fuel dispensing system for use by the Parks vehicle fleet. This installation reflects a growing national trend towards the use of alternative fuels and other renewable sources of energy highlighted by the establishment of the nation's first comprehensive Renewable Fuel Standard (RFS) program by the EPA. The RFS program provides incentives to promote the use of fuels such as ethanol and Biodiesel and could reduce petroleum use by up to 3.9 billion gallons by 2012.

In this case the Park chose a B-50 blend (50% Biodiesel / 50% Petroleum). The Biodiesel fueling station, which will service a fleet of over 20 vehicles, is being made possible by a grant from the Clean Fuel Advanced Technology (CFAT) Project, as well as additional funding from the Friends of the Smokies. The fuel tank is coated in a low maintenance concrete exterior which requires less maintenance than tradition steel tanks. "This refueling system will not only save the Park money through lower maintenance costs but will subsequently help them reach their stated goal of improved air quality." said Core's Vice President of Operations, Jeanne Murck.

Core provided the Biodiesel dispensing system which included a 4,000 Gallon ConVault™ Aboveground Storage tank. ConVault storage tanks are compatible with most alternative fuels and feature an innovative concrete encased design. Six inches of re-inforced concrete surrounds both the primary and secondary containment of the tank providing the Park with maximum safety and environmental protection. The Core system design included B-50 compatible dispensing equipment, pumps, fittings, hoses, alarms and heating system for the tank. Most accessories and some piping were pre-installed at the factory, minimizing on-site expenses. Core has fueling systems installed at over 300 parks in 29 states throughout the county.



REPRESENTATIVE PROJECTS



Belowgrade Fuel Storage

Client: Novartis Institute for Bio-Research
Location: Avon, Massachusetts
Project: UL 2245 Belowgrade Fuel Storage

Novartis Institute required a unique solution to run their emergency power systems at their Bio-Medical Research Facility in Avon, Massachusetts. Environmental concerns (the institute was located within blocks of a Rail Road and an open Waterway) prevented the use of an Underground Storage Tank (UST). However, an Aboveground Storage Tank (AST) would not fit the small footprint that was required to fit between two high rise buildings. In addition, public safety concerns caused city officials to ban the use of an aboveground tank within this particular city zone. Core's solution was an innovative Belowgrade Liquid Containment Vault system. The UL Listed Liquid Containment Vault (LCV) provides fortified protection where fuel is safely contained and water is sealed out. Because the storage tanks are located within a vault that allows for easy accessibility and visual inspection by your personnel, they are classified by the EPA as Aboveground Storage Tanks (AST) even though they are located at or belowgrade.



Marina Fueling System

Client: USCG
Location: Cape May, NJ
Project: Marina Fueling

The USCG Training Facility at Cape May provides training, vessel support and communication facilities for coastal defenses. The Search and Rescue Fleet at Cape May required an upgrade to their dispensing system that could account for variable tidal water levels. Core provided a customized turnkey solution that incorporated a floating dock to allow for the fluctuating water levels. Cores Scope of services included manufacturing/procurement and installation of a 1000 gallon ConVault tank with submersible pump, dispenser, sitepad, venting, signage and accessories including hurricane hold-down cables.



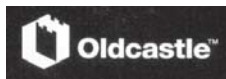
ALLIANCE PARTNERS

Our expertise is the technical analysis of customer problems, system design and integration, and technical support for installation operations. Our solutions utilize the best available technology manufactured to our specifications by companies with whom we have built long term alliances. We evaluate our alliances for manufacturing quality, design innovation, and flexibility to meet our customer's specific requirements.



Precast Concrete Encased Aboveground Storage Tanks

Technology licensed from ConVault, Inc. the Fire Resistant AST industry pioneer and leader with 17 years experience and over 35,000 national installations and a network of seven manufacturing facilities nationwide. AST production is from Oldcastle Precast, Inc.



Oldcastle Precast, Inc. is one of five U.S. divisions of CRH plc, a leading international building materials group, headquartered in Ireland. The Group manufactures and supplies a broad range of building products across the construction supply chain. In total, CRH employs over 40,000 people at more than 1,300 facilities in 19 countries on 3 continents. North America is the largest region in the CRH group. Its activities are organized under a holding company, Oldcastle, into five product groups covering 550 locations in 48 states and provinces and employing over 19,500 people.



Hazmat Storage

Laden Steel Fabricators, Inc. manufactures the PRO-TEC Hazmat Storage Facilities. Laden leads the industry in providing solutions for the safe storage of hazmat, chemicals, combustibles, flammables and explosives.



Environmental Compliance Products features the latest and best concept in Hazardous Materials Storage Buildings. double stacking of drums and seismic secondary containment shelving

Dispensing Equipment / Tank Monitoring / Other Equipment

Our customer's special needs require us to procure materials, equipment and components from various manufacturers. These manufacturers are extensively evaluated for quality, flexibility, and response. We assure system integration and performance so that our customers are furnished complete and functional systems.